

Theory and Practice of Electron Microscope
Stereophotography, by J. G. Halvaks, 29 pp.

GERMAN, per, Optik, Vol XI, No 5, 1954,
pp 201-225. 9687259

DDC RBIC-65

Sci - Phys
Oct 63

345, 219

(FDD 25938)

Electron-microscopic Investigations of the Structures
of Various Membrane Filters, by J. G. Helmcke, 6 pp.

GERMAN, per, Zentral fuer Bakteriologie, No 159, 1953,
pp 308-310.

CIA/FDD/U-7828

EEur - Germany

Sci - Biology, bacteriology 32,382

Feb 1956 CTS

Virus-Like Particles in Cell-Free Transplantable
Mouse Leukemias, by U. Heine, A. Graffi, J. G.
Helmeke, A. Randt, 4 pp.

GERMAN, par, Naturwissenschaften, No 16, 1957,
pp 1-3.

ATTC F-TS-9654/III

Sci - Med

Nov 58

77,087

Helme, J. P., Molines, J. and others.
CONTRIBUTION TO THE THEORETICAL STUDY OF
THE PHENOMENON OF DRYING POWER. [1962] 32p.
(18 figs. [refs.] omitted).
Order from SLA \$3.60

62-10707

Trans. of Peintures, Pigments, Vernis (France) 1960,
v. 36, no. 10, p. 574-587.

DESCRIPTORS: *Dehydration, Theory, Hydroperoxides,
Decomposition, Oxidation, Polymers, Separation, Poly-
merization, *Oils, Free radicals.

This theoretical study permits the authors to give
evidence of three very distinct stages in the phenomenon
of autoxidation; the formation of a hydroperoxide, the
decomposition of the hydroperoxide with the formation
of secondary oxidation products and, finally, the de-
composition of the latter into scission products and
polymers. These polymers are more difficult to isolate
(Engineering--Chemical, TT, v. 9, no. 4) (over)

62-10707

I. Title: Linseed oil
I. Helme, J. P.
II. Molines, J.

C227638

Office of Technical Services

J-1271-63

On the Side of the Rebel Kurds, by
Erich Helmensdorfer, 15 pp

GERMAN, np, 13 Jul 1963.

*JPRS/DC-8931
(Special)

ME - Iraq
Pol, Mil

Hand Disinfection by Means of Bradosol, by
F. Helmer, E. Schnabl, 6 pp.

GERMAN, per, Wien Klin Wochschr, Vol LXII,
1950, pp 922-924.

SIA Tr 57-357

Sci - Med
Jul 57

49,981

HELMER, J.

Jernkontorets Annaler, vol. 120, pp. 523-575,
2 figs., 1400 words; 1936.

Basic Open Hearth Process in Sweden in its
Technical and Economic Aspects.

Brutcher Trans., Order No. 474, \$1.40

A 4044

Helmer, Covert.
SURFACE DEFECTS ON BHOOTS AND BILLETS.
[1963] 61p. 23 refs.
Order from SLA \$6.60

63-16852

Trans. of Jernkontoret (Stockholm), Annaler
(Sweden) 1944, v. 128, no. 9, p. 457-520.

DESCRIPTORS: *Steel, Porosity, *Castings, Surfaces,
Fracture (Mechanics), Molding, Molding materials,
Hot working, Friction.

(Metallurgy--Ferrous Metals, TT, v. 10, no. 8)

63-16852

1. Title: Ingot structure
 2. Title: Billets
- I. Helmer, G.

A247750

Office of Technical Services

Determination of Coarse Slag Inclusions in High
Carbon Steel, by Govert Helmer, 11 pp.

SWEDISH, per, Jernkontoret [Stockholm], Annaler,
Vol CXXXVII, No 4, 1953, pp 128-138.

SLA 60-10298

Sci

Jun 60

118,342

(SF-2270)

MARX VERSUS LENIN — STATE, DEMOCRACY, FREEDOM,
BY MARTIN HELMER, 33 PP.

GERMAN, PER, EINHEIT,

JPRS 14720

EEUR - GERMANY
POL
AUG 62

205,971

Mathematical and Physical Theories of Higher
Geodesy, Part II: The Physical Theories, by
F. R. Helmert.

GERMAN, bk, Mathematischen und Physikalischen
Theorien der Hoheren Geodasie, Leipzig, 1884.

ACIC *Is in on 7 from 075*
180,838

Sci - Phys

Jan 62

Mathematical and Physical Theories of Higher
Geodesy, Preface and Part I: The Mathematical
Theories, by F. R. Helmert.

GERMAN, bk, Mathematischen und Physikalischen
Theorien der Hoheren Geodaeie, Leipzig, 1880.

ACIC

can only find it

Sci - Phys

180,837

Jan 62

46
Deflections of the Vertical, Volume 1. Formulas
and Tables, as well as Some Numerical Results
for Northern Germany, by F. R. Helmert.

GERMAN, bk. Veröffentlichung des Königl. Preussischen Geo- und Deutichen Instituts, Got
1886, 130 pp.
ACIC TC-1420

Sci-Bar Sci
Jan 69

371.914

78
Gravity in High Mountains, Especially
the Tyrolean Alps, in Reference to Geo-
desy and Geology, by F. R. Helmert.
GERMAN, rpt, Veroffentlichung des Konig-
lichen Preussischen Geodatischen Inst
und Central Bureau der Internationalen
Erdmessung, 1890, 52 pp.
*ACIC-TC-1560

F.R. HELMERT

Sci-Ear Sci
Aug 69

The Adjustment Computation by the Method of Least
Squares, by F. R. Helmert.

GERMAN, bk, Die Ausgleichungsrechnung Nach der
Methode der Kleinste Quadrate, Leipzig-Berlin, 1921.

ACIC

Sci - Phys

Jan 62

180, 839

Gravity in High Mountains, Especially the
Tyrolean Alps, in Reference to Geodesy and
Geology, by R. P. Helmert,

GOVERNMENT USE ONLY

GERMAN, paper presented, Veroffentlichung
des Koniglichen Preussischen Geodatischen
Institutes und Centralbureaus der Internation-
alen Erdmessung, 1890, 73 pp.
ACIC TC-1560

R. F. Helmert

Sci/Ear Sci & Ocean
Nov 70

Helmholtz, H.
ON THE FORM OF THE HOROPTER, DETERMINED
MATHEMATICALLY (Über die Form des Horopters,
Mathematisch Bestimmt). [1961] [11]p. (foreign text
included).

Available on loan from SLA

61-14086

Trans. of Naturh[istorisch]-Med[izinischer] Ver[ein].
Verhandl[ungen] (Germany) 1862/[65] v. 3, p. 51-55.

DESCRIPTORS: *Eye, *Retina, Visual perception,
Optical images, Mathematical analysis.

(Biological Sciences--Physiology, TT, v. 7, no. 2)

61-14086

1. Title: Horopter
1. Helmholtz, H.

135351

Office of Technical Services

Helmholtz, H.
ON THE HOROPTER (Über den Horopter). [1961]
[8]p. (foreign text included).
Available on loan from SLA 61-14088

Trans. in manuscript of Naturh[istorisch]-Med[izi-
nischer] Ver[ein]. Verhandl[ungen] (Germany)
[1862/65, v. 3] p. 122-124.

DESCRIPTORS: Eye, Retina, Visual perception.

(Unannounced)

61-14088

1. Title: Horopter
1. Helmholtz, H.

1955.

Office of Technical Services

Helmholtz, H.
ON THE MOVEMENTS OF THE HUMAN EYE (Über
die Bewegungen des Menschlichen Auges). [1961] [17]p.
(foreign text included).
Available from SLA on loan 61-14090

Trans. in manuscript of Naturh[istorisch]-Med[izin-
nisher] Ver[ein]. Verhandl[ungen] (Germany)
[1862/65, v. 3] p. 62-67.

DESCRIPTORS: Eye, Motion, Visual perception.

(Unannounced)

61-14090

I. Helmholtz, H.

1000055

Office of Technical Services

Temperature Distribution in a Revolving Cutting
Tool, by G. Pahlitzsch, H. Heijerdig, 47 pp.

GERMAN, per, Ver Dcut Ing Z., Vol LXXXVII, No
35-36, 4 Sep 1943, pp 564-571.

SLA 58-697

Sci

Aug 59

95,185

The Facts in Perception, by H. Helmholtz; 38 pp.

GERMAN, bk.

NIH 6-18-61

175,948

Triangulation of the Bergen, by Reidar Helming,
8 pp.

NORWEGIAN, per, Norsk Tidsskrift for
Jordakirte og Landmaling, No 6, 1961, pp 391-394,
CALL NO. TA501 N86, 1961.

Army Map Service

Bcl - Engr

19 Jun 62

200,992

Experimental Animal Investigations of Hypoglycemic
A Substance Prepared from *Aspergillus Niger* that is
Effective Orally, by Ernst Halmreich, 4 p.

GERMAN, per, Klinische Wochenschrift, 1951,
Vol XXIX, No 21/22, pp 375-377.

SLA 59-17825

Sci

Feb 60

Vol 2, No 10

108,806

Preliminary Report on the Quantitative Chemical
Determination of Urinary Aldosterone, by M. L.
Helmreich, A. Riandell, R. Borth, 1 p.

GERMAN, per , Schweiz Med Wochschr, Vol LXXXIV,
2 Jul 1955, p 661.

SIA Tr 2138

Sci - chemistry

50,564

Aug 57

On the Question of the Effect of Digitalis
Substances on the Actomyosin and Adenosinetri-
phosphatase of the Heart Muscle, by E. Helmreich,
K. Simon, 12 pp. UNCLASSIFIED

GERMAN, per, Z Naturforsch, Vol VII-b, 1952, pp
341-344.

NIH 2-3

60,271

Sci - Med

Mar 58

Carbon Anodes for the Electrolysis of
Aluminum, by W. Helling, R. Lange, and
G. Helmrich, 12 pp.

GERMAN, per, Erzenetall, Vol VII, 1954,
pp 389-394.

SLA 57-2561

Sci

Aug 58

69, 860

Basic Differences Between Polarized and
Nonpolarized Magnetic Systems in Belyas,
by H. Halmarich, 13 pp.

GERMAN, per, Elektrotech Z , Vol LXXX,
No 16, 1959, pp 536-541.

ADB-77N430

Sci

195, 997

May 62

J-731/61

(DC-6126)

Communist Forgeries, by Richard Helms,

ENGLISH INTO FRENCH, ITAL, SPAN, PORT - booklet,
Communist Forgeries, 2 Jun 1961, pp 121.

*JPRS/SPECIAL

World Wide

MI1

26 Jun 61

Mechanism of Action . . . of B 518 (Endoxanasta)
on the Jensen Sarcoma and Inhibition of Chemo-
therapy of Tumors by the Vitamin Nicotinic Acid
Amide, by Holzer, Helmut, Kruger, Hans, 7 pp.

GERMAN, Per Klin Wochenschrift (Germany) 1958,
Vol XXXVI, No 14, pp 677-678.

SLA 59-15494

Sci

Oct 59

Vol 2, No 3

79,858

Systems Employed in Semiconductor Mani-
facturing, by Helmut Melzer, 8 pp.
GEMSA, par, Radio und Fernsehen. No 13,
1964, pp 404-406.
ACSI X-5805
ID 880404986

Sci - Eng
Mar 65

887,346

Melzer, Helmut

INTENSIVE POLYTECHNIC INSTRUCTION, BY WOLFGANG
MUELLER, HELMUT DITTRICH, 13 PP.

GERMAN, PER, PAEDAGOGIK, NR VOL XVII, NO 7,
PP 652-662.

JPRS 15419

EUR - GERMANY
SOC
OCT 62

212,897

The Effect of Interference Factor in Stereo Measurements by Anaglyphic Method, by Rafael Halmy.

GERMAN, rpt, Einfluss Des Störfaktors bei Stereomessungen mit Anaglyphen.

ACIC

Sci - Earth Sci & Astron
Jan 64

246,320

Investigations on the Photoplotter Model VI From
Mistri (I) of the Fima Ottico Meccanica Italiana,
by Raafat Helmy.

GERMAN, per, Bildmessung und Luftbildwesen,
No 4, 1962, pp 184-193.

ACIC

Sci - Phys

Feb 63

221,445

Heloir, George.

MOTION PICTURE CAMERA TAKING, ON ORDINARY FILM, STEREOSCOPIC VIEWS OF STANDARD DIMENSIONS WITH A SINGLE OBJECTIVE. [1961] (3p. (9 figs. omitted).

Order from OTS or SLA \$1.10

62-10900

Trans. of French patent 797415, Or 17 Cl 3, filed 8 Nov 34, delivered 8 Feb 36, pub 27 Apr 34.

DESCRIPTORS: *Motion picture cameras, Cameras, *Photographic equipment, Photographic film, *Stereoscopic projectors, Stereoscopes, Inventions

The resulting film may be projected like an ordinary non-stereoscopic film, the left and right images being selected for each eye by the method of anaglyphs, or by alternate masking of the eyes, or by any other method. Each left or right view is sent by a transmitting re- (Materials--Photographic, TT, v. 7, no. 11) (over)

62-10900

L. Heloir, G.

E. Patent (France) 797 415

209094

Office of Technical Services

The Chemical Effects of Nuclear Transformations of Polyvalent Atoms in Organic Liquids, by K. E. Sierkiewska, A. Halpern, 6 pp.

POLISH, per, Mechanika, Vol 7, No 10, 1960, ~~pp 633-647~~ pp 633-647.

XXXX ABC Tr-4164

Sci

Jan 63

220,703 603

(a) Measures to Improve the Readiness for Action and the Quartering of Mobile Medical Units, by P. Sömer, (b) Training of Medical Personnel, by E. Kolske, (c) Medical and First Aid Training of Nonmedical Personnel in the Finnish Armed Forces, by E. Kolske, 20 pp. UNCLASSIFIED

FINNISH, per, Sotilaslanketiiteellisen Aikakauslehti, No 3, 1957, Helsinki, pp 3-16, 23-26, 27-30.

ACSI, E-0723

62,349

Workur - Finland
M11

Apr 58

(a) Measures to Improve the Readiness for Action and the Quartering of Mobile Medical Units, by P. Somer, (b) Training of Medical Personnel, by E. Heloke, (c) Medical and First Aid Training of Nonmedical Personnel in the Finnish Armed Forces, by E. Heloke, 20 pp. UNCLASSIFIED

FINNISH, per, Sotilaslaskettietiedustallinnon Aikakauslehti, No 3, 1957, Helsinki, pp 3-16, 23-26, 27-30.

ACSI, H-0723

62,349

MORRIS - Finland
Mil

Apr 58

(FDD 25384)

Injuries Caused by Atomic Weapons and Possibilities of Protection Against Them, by Esko Helske, 19 pp.

FINNISH, no per, Suomen Lääkärilehti, No 3, Helsinki, 1 Feb 1955, pp 153-171.

CIA/FDD U-8002

EEur - Finland

Sci - Medicine, nuclear energy

33,623

**Statistical Theory of Signal Detection, by Carl W.
Helstrom.**

RUSSIAN, bk,

FF

Anatomical Observations on the Stomach of Man,
with Reflections on the New System, which Regards
the Trituration in the Stomach as the Cause of the
Digestion of the Food, by Jean-Claude-Adrien
Helvetius, 9 pp.

FRENCH, Mongoraph, Histoire de l'Academie Royale
des Sciences, 1719, pp 336-349.

SLA 59-15613

Sci
Oct 59
Vol 2, No 3

99,843

Concerning Thin Hydrocarbon Layers formed
by electron or ion bombardment, by
H. Lohse, G. Helwig.

Advan. in Phys., Vol 123,
1961, pp 491-503.

*5151 4161

sci-4/n
May 65

G. Helwig

278,836

Modern Combat and Physical Fitness, by
Miroslav Hemala, 6 pp.

CZECH, np, Obrana Lidu, No 240, 2 Oct 1960,
p 3.

ACSI I-4076
ID 2211715

EEur - Czechoslovakia
Mil
30 Jan 63

New Electrostatic High-Voltage Generators, by
P. Hemardinger, 8 p.

FRENCH, per, Electricite, 1950, Vol XXXIV,
No 165, pp 254-256.

SLA 59-17033

Sci
Dec 59
Vol 2, No 6

104,017

Applications of Ultrasonics in Metallurgy
and Mechanics, by P. Hemardinquer, 23 pp.

FRENCH, per, Rev Gen Mecan, No 92, Sep
1956, pp 309-313.

SLA 57-3172

SLA 57-131

Sci

Aug 58

72,527

The Westfalia Oil-Separator With Self-Emptying
Drum for the Purification of Heavy Oils for Ship-
board Use, by H. Benfort, 4 pp.

GERMAN, per, Motortechnische Zeitschrift, Vol XV,
No 7, Jul 1954, pp 201-203.

CM/FTD/E-1A1

Scientific - Fuels

CT: 67/Apr 1955

22,745

The problem of textile technological documentation
nears its solution, by Erik Hemlin. UNCLASSIFIED

GERMAN, Textil Dokumentations Vol VII, No 2, 1951,
pp 5 - 7.

OCMTr
QMT-227

WE - Economic

Nov 1951 CTS

A 4046

Experiments Concerning the Effect of RA 8
Upon Circulation and Pulmonary Function,
and Clinical Experiences, by H. Hemmerl,
K. Klein, O. Pechler, 12 pp.

GERMAN, per, Arztlich Forsch, Vol XIII,
No 4, 1959, pp 196-200.

ATB-76426

Sci
Feb 62
Vol 4, No 9

184,674

(SF-1697)

The Survival of Airborne Microorganisms, by Jan Hemmo
Hemmes, 119 pp.

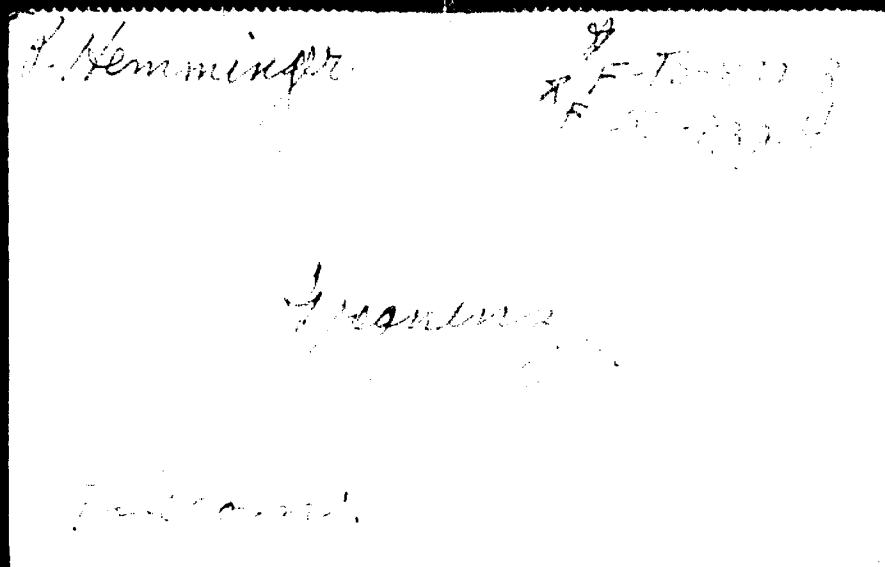
DAFCH, Lk, De Overleving Van Microorganismen in
Lucht, 1959, pp 1-120.

JPRS 4761

Sci - Biol

Aug 61

162,743



Hempel, Walther and Tedesco, Hermann.
STUDIES ON THE AMMONIA SODA PROCESS. [1963]
8p. (figs. tables omitted) 6 refs.
Order from SLA \$1.10

63-14129

Trans. of Angew[andte] Chemie (Germany) 1911,
v. 24, p. 2459-2469.

DESCRIPTORS: *Sodium compounds, *Carbonates,
Production, Chlorides, *Ammonia, Carbonic acids,
*Solvay process.

(Engineering--Chemical, TT, v. 10, no. 7)

63-14129

I. Hempel, W.
II. Tedesco, H.

A247547

Office of Technical Services

Behaviour of Heat-Resisting Steel in Long-Period Tests at 500-700° C. Part VII, by Hempel.

GERMAN, per, Arch Eisenhüttenwesen, Vol XXVIII,
May/Jun 1957,

Tr 574
(52.5.0)

57,685

Sci - Min/met
Jan 58

26
On the Relation Between Stock Density and Growth
in the Finise Population of the Salmon Trout,
by Gotthilf Hempel.

RUSSIAN, per. Bulletin der Deutschen Wissenschaft-
lichen Kommission der Naturforschung, Vol 13,
No 2, 1958, pp 138-144.

Dept of Interior
Fish and Wildlife Service
DCF, Bureau of Foreign Fisheries

EE-Germany

Econ

Nov 67

Gotthilf Hempel

345,506

Recent Model Concepts on the Dynamics of Demersal
Fish Stocks, by Gotthilf Hempel.

GERMAN, per, Ber Dtsch Wiss Comm Meeresforsch,
Vol XVI, No 2, pp 51-89.

Dept of Interior
SB211 E82 No 370

207,292

Sci - Biol

Aug 62

Effect of Crystal Orientation on the Formation
of Slip Lines on the Surface of Alpha-Fe
Single Crystals Subjected to Alternating Bending
Stress, by Hampel, et al. UNCLASSIFIED

GERMAN, per, Arch Eisenhuettenwesen, Max No 8,
1957, pp 433-444.

British Iron and
Steel Ind 719
(LA.10.0)

SLA 61-16326

76,328

Sci - Chem
Nov 58

A measuring Device for the Determination of Electrical
Values in Biological Membranes With Active Ion
Transport, by W. Karger, F. W. Eigler, A. Hemphill,
6 pp.

GERMAN, per, Pflügers Archiv, Vol CCLXXII, No 2, 1960,
pp 187-190.

NIN 5-23-61

Sci - Med
Jul 61

159,558

Structural Mechanics of Bitumens, Its Rheological
Significance and Relation to Conventional Test
Methods, by F. Hengpel.

GERMAN, per, Gittumun, Teere, Asphalte, Peche,
Vol X, No 1, 1979, pp 12-21.

C. S. I. R. O. T4510

Sci

May 60

115,673

Weather Processes and Their Influence on Marine
Fish Stocks, by Gotthilf Hempel.

GERMAN, per, Umschau, No 15, 1960, pp 466-469.

Library
Fisheries Res Bd of Canada
Biol Sta St. Andrews NB

171,880

Sci

Oct 61

Distribution of the Cell System which Stores
Catecholamines. Autoradiographic Studies 52
with Tritiated DOPA, by K. Hempel.
GERMAN, per, Verh Dtsch Ges Path, No 47,
1963, pp 286-292.
NIH 4-60-65

Sci-B&M
May 65

280,900

61-16315

Hempel, M.
LONG TIME FATIGUE TESTS ON A FERRITIC AND
AN AUSTENITIC STEEL AT 500-650°C. Pt. 7 of Be-
haviour of Heat-Resist[ant] Steels [during Creep Test-
ing at Temperatures of] 500-700°C. [1958] [11]p.
44 refs.

Order from SLA \$1.60

61-16315

Trans. of Archiv für das Eisenhüttenw[esen] (West
Germany) 1957, v. 28 [no. 5/6] p. 311-316.

DESCRIPTORS: *Heat resistant alloys, *Steel, *Austen-
ite, *Creep, Fatigue (Mechanics), Tests, Stresses.

I. Hempel, M.
II. Title: Behaviour...

Office of Technical Services

(Metallurgy--Ferrous Metals, TT, v. 6, no. 3)

Behaviour of Steels at Low Temperatures Under
Alternating Tensile Stresses, by M. Hempel,
J. Luce: UNCL

GERMAN, per, Mitt Kaiser Wilhelm Inst fuer
Eisenforschung, Vol XXIII, No 3, (paper 413)
1941.

RAE 303

Sci - Min/Mat
Apr 60

114,782

The Effect of Welding Defects on Tensile
Endurance Limit in ST 37 Steel Specimens, 16 p.
by M. Hempel, H. Noller
GERMAN, per, Arch Eisenhüttenw., 1949, Vol XX,
No 11/12, pp 375-383.

ATS-011340

Sci
Mar 60
Vol 2, No 11

109603

Fatigue Strength Diagrams of Notched and Cold-Deformed
Steels and Screws, by M. Hempel, 2 p.

GERMAN, per, Zeit Verein Deutscher Ing, 1937.
Vol LXXXI, No 29, pp 870.

BLA 59-20394

Sci
Mar 60
Vol 2, No 12

109,233

Contribution to Our Knowledge of the Fatigue Strengthening of Materials, by M. Hempel, E. Houdremont. UNCL.

GERMAN, per, Stahl u Eisen, Vol LXXIII, 1953,
p 1503.

British Iron and Steel Ind
(no number given)

Sci -Min/Mat
Sep 59

98,192

Tests for Fatigue Strength and Behaviour of
Materials Under Alternating Stress; II. Multi-
Stage Repetition Tests and Changes in the Properties
of Materials, by W. Hempel, 12 pp.

GERMAN, per, Zeit VDI, Vol XCIV, No 26, Sep 1952,
pp 882-887.

CIA/FDD/Z-167

Engineering

28,615

Scientific - ~~Engineering~~

Nov 55 CTS/DEX

SLA 58-589

Structural and Crystalline Conditions After Cold
Forging and Alternating Stress, by M. Hampel, H. R.
Sander, H. M. Moller.

GERMAN, biwk per, Stahl und Eisen, Vol LXXII,
No 18, Aug 1976-1086.

D.S.I.R./27514

Sci - Engineering, Chemistry 46,437
Apr 57 CTS/dex

Tensile-Compressive Fatigue Tests on Steel at
High Temperatures, and the Assessment of the
Results Obtained by Different Methods, by
M. Bempel, H. Krug.

GERMAN, per, Mitt K-Wilh Inst Eisenforschg,
Vol XXIV, 1942, pp 71- 95.

DSIR/25376/CT

Sci - Min/met
Oct 57

53,880

Cast Iron and Malleable Cast Iron Subjected to Alternating Loading, by M. Hempel, 8 pp.

Full translation.

GERMAN, per, VDI Zeitschrift, Vol XXCV, No 12,
Mar 1941, pp 290-292.

S.L.A.

Scientific - Minerals/Metals

26,021
Jul 55

Tests for Fatigue Strength and Behavior of Materials
Under Alternating Stress. 1. Fatigue Tests as a
Means of Establishing Bases for Calculation, by
M. Haugel, 13 pp.

GERMAN, per, Z. VDI, Vol XXVI, No 26, 1932,
pp 809-815.

Scientific - Engineering

22,748

CIA/RDP/X-1A4

SLA 58-593

CPS 67/Apr 1973

A Contribution ~~XX~~ To the Question of Endurance
Strength With Varying Sample Size, by M. Hempel

Full translation.

~~GERMAN~~, Arch Eisenbau, Vol 22, No 11/12, pp
425-436, 1951.

TPA3/TIB 2r No T 406

Scientific - Engineering

Index Aeronautics, March 1953

A-4049

61-18535

Hempel, M. and Krug, H.
FATIGUE STRENGTH AND ELONGATION OF
STEELS AT HIGH TEMPERATURES. [1961] [12]p.
24 refs.

Order from SLA \$1.60

61-18535

Trans. of V[erein] D[eutscher] I[ngenieur]e. Z[schrift]
(Germany) 1942, v. 86, no. 39/40,
p. 599-605.

DESCRIPTORS: *Steel, Heat treatment, *Tempera-
ture, *Fatigue (Mechanics), Deformation, Stresses.

I. Hempel, M.
II. Krug, H.

184205

(Metallurgy--Ferrous Metals, TT, v. 7, no. 1)

Office of Technical Services

The Influence of Hot Dip Galvanizing on the
Fatigue Characteristics of Cold-Rolled
Sheet. Part I, by M. Hempel, D. Horstmann.

GERMAN, per, Stahl und Eisen, Vol LXXXII,
No 25, 1962, pp 1769-1775.

HB 5801

Sci-M/M

243,940

Dec 63

KORNER, F.

~~KORNER, M.~~

Mitteilungen K. W. Institut Eisenforschung., vol.
17, 1 figure, 1 table, 1100-word abstract, 1935.

Influence of Straining and Aging upon Behavior
of Steel under Alternating Stresses.

Butcher Trans, Order No. 372, \$ 1.30.

A 4050

The Influence of Hot Dip Galvanizing on the
Fatigue Characteristics of Cold-Rolled ~~XXXXXX~~
Sheet. Part II, by M. Hempel, D. Horstmann.

GERMAN, per, Stahl. und Eisen, Vol LXXXII, N
No 25, 1962, pp 1775-1781.

HB 6078

Sci-M/M
Jan 64

246,348

**Application of Physical and Metallographic Investi-
gation Methods in the Fatigue Testing of Materials,
by M. Kumpel.**

GERMAN, per, Draht, Vol XI, 1960, No 4, pp 151-157.

**Dept of Interior
Tr No 1778**

Sci

Jan 63

POMP, A.
HEMPER, M.

Mitteilungen L. W. Institut Eisenforschung, vol. 19,
24 diagrams, 1 table, 1100-word abstract; 1937.

Comparative Study of Steels with and Without Nickel
for Mechanical Properties, especially their
behavior under Alternating Stresses.

Butcher Trans., Order No. 513, \$ 1.60

A - 4051

PUMP, A.
HEMPF, K.

Mitteilungen K. W. Institut Eisenforschung,
vol. 19, and vol. 20, 3 figures, 1500-word
abstract; 1937-38.

**Fatigue Tests of Steel Wire under Alternating
Tensile Stress.**

Brutcher Trans, Order No. 729, \$ 1.50.

A 4052

KORBER, F.
HENDEL, M.

Mitteilungen Kaiser-Wilhelm-Institut Eisenforschung.
vol. 18, 1936, No. 1, pp. 15-19; 2 figures, 2
tables, 500-word abstract.

Fatigue Strength of Steel as Function of Frequency
of Load Reversals.

Brutcher Trans, Order No. 2145, \$ 1.50.

A-4053

Hempel, M.
FATIGUE STRENGTH EXPERIMENTS AND THEIR
EVALUATION WITH THE USE OF STATISTIC
METHODS. [1962] 6p. (figs. and refs. omitted).
Order from SLA \$1.10 62-16953

Trans. of Draht (West Germany) 1954 (v. 5, no. 10)
p. 375-378.

DESCRIPTORS: *Fatigue (Mechanics), Statistical
analysis, Stresses, Fracture (Mechanics).

(Mechanics, TT, v. 9, no. 2)

62-16953.

I. Hempel, M.

020154

Office of Technical Services

60-18857

Hempel, M[ax] and Krug, H[ermann].
INFLUENCE OF THE YIELD POINT ON THE FA-
TIGUE STRENGTH OF STEEL, tr. by C. B. Lander.
[Oct 49] [13]p. (3 figs. omitted) 23 refs.
Order from SLA mi\$2.40, ph\$3.30 60-18857

Trans. Kaiser-Wilhelm-Institut für Eisenforschung.
Dusseldorf. Mitteilungen (Germany) 1942, v. 24, no. 7,
p. 97-103.

1. Steel--Fatigue
- I. Hempel, M.
- II. Krug, H.

Office of Technical Services

(Unannounced)

Fatigue Strength Graphs of Steels for Different
Average Tensile Stresses Taking into Account
the Test Specimen Form, by Anton Femp, Max
Hempel, 28 p.

GERMAN, per, Kaiser-Wilhelm-Inst- fur Eisenforsch
Mitt, 1936, Vol XVIII, N pp 1-24.

SLA 59-20583

Sci
Apr 60
Vol III, No 2

113,596

Alternate Stress Diagrams of Steels at
Higher Temperatures, by Max Nessel, Hermann
Krug, 24 p.

GERMAN, per, Archiv für das Eisenhüttenwesen,
1943, Vol XVI, No 7, pp 261-268.

SLA 60-10174

Sci
Apr 60
Vol III, No 3

112,056

Behavior for Steel Under Cyclic Creep Tests at
500 , by Max Humpal, Friedrich Ardelt, 35 p.

GERMAN, per, Archiv fur das Eisenhuettenwesen, 1939, #
Vol XII, No 11, pp 553-564.

SLA 60-20273

Sci
Apr 60
Vol XII, No 3

113,651

Contribution to Evaluation of the Welding Defects
Based on X-Ray Photographs and Stress and Strain
Experiments on Welded Samples, by Hermann Moller,
Max Bempel, 24 pp.

GERMAN, per, Arch Eisenhüttenw, Vol XXVIII, 1957, pp
531-541.

ABC 3361

Sci - Phys

Nov 58

76,437

Rockets Versus Rockets, by von W. Kernol.
6 pp.

GERMAN, per, Jugend und Technik, No 3,
1962, pp 43-45.

ACSI I-1311
ID 2196121

Sci - Space/res

198, 734

4 May 62

83
Alimentary Behavior and Organic
Adaptation to Desert Zones, by
A. Henane.
PARMCH, por. Revue des Corps de Santa
dos Armeos, Vol 4, 1963, pp 33-54.
DOI 11-11,612

Sci/ arth Sci
Oct 68

369,023

R. Henane

Malnutrition in the Sahara Desert Area.
Medico-Physiological Study, by

J. HENRI.

100-11171-11-633

11-11-11, par, Malnutrition et dete.

Vol 6, 1968, pp 46-60.

100-11171-11-633

R. HENRI

369,024

Vol 6, 1968
pp 46-60

Slag Ladles Made of Cast Steel, by A. Hencke.

GERMAN, por, Stahl und Eisen, Vol. LXXVII,
1 Mar 1962, pp 268-275.

BISI 2590

Sci - Min/Metals

Oct 62

212,268

list 149

Application of Gravel Cultures for a Study of Soil
and Atmospheric Drought, by P. Henkel,
I. Tsvetkova.

RUSSIAN, per, Fiz Rastenii, Vol VII, No 5, 1960,
pp 610-614.

CSIRO/No 5826

Sci
Jan 63

**The Superposition Law of a Finitely Deformed
Elastic Continuum Subject to Relaxation and**

Elastic Continuum Subject to Relaxation and
Its Significance for the Exact Derivation
of the Equations for Viscous Liquids in the
Euler Form, by H. Beneky, 11 pp.

OSWALD, per, Ann Physik, 1929, Vol II, No 6,
pp 617-630.

ATS-51298

ATS-227-GJ

Sci - Phys

OS I, 12

Jul 59

92, 335

On the Theory of Plastic π Deformations and the
Residual Stresses Set up in the Material, by
H. Hencky

GERMAN, Z. Angew. Math. Mech., 4, 323-334.

Associated Electrical Industries, LTD

Theory of Elastic Deformation with residual stresses.
by H. Hencky.
CHURCHMAN, PER. J. ~~APPL~~ Math Mech. Vol 4, No 4, 1924.
pp 34-323
CML/T. 1611

H Hencky

Theory of Plastic deformation and Secondary Stresses in
the Material caused by them, by H. Hencky.
DUTCH, rpt. From 1st Congr Applied mechanics. 1st delct.
1924. pp 17-312
CML/T. 2283

H HENCKY

Sci -
Sep 67

40,246